

Use Attainability Analysis  
for  
WBID 2041 Dry Fork Creek

Submitted by  
SES Inc.  
to  
Missouri Department of Natural Resources  
Water Protection Program

Date received: September 10, 2007

**Field Data Sheets for Recreation Use Stream Surveys**  
**Data Sheet A - Water Body Identification**  
(For water body being surveyed)

**Water Body Information**

Water Body Name:	Dry Fork Creek	WBID:	2041		
8 digit HUC code:	7140103	County:	Maries		
Upstream Legal Description	T40N	R7W	Sec7		
Downstream Legal Description	T41N	R6W	Sec35		
Number of Sites Evaluated	6				
List all site numbers, listed upstream to downstream					
1	2	3	4	5	6

**Discharger Facility Information**

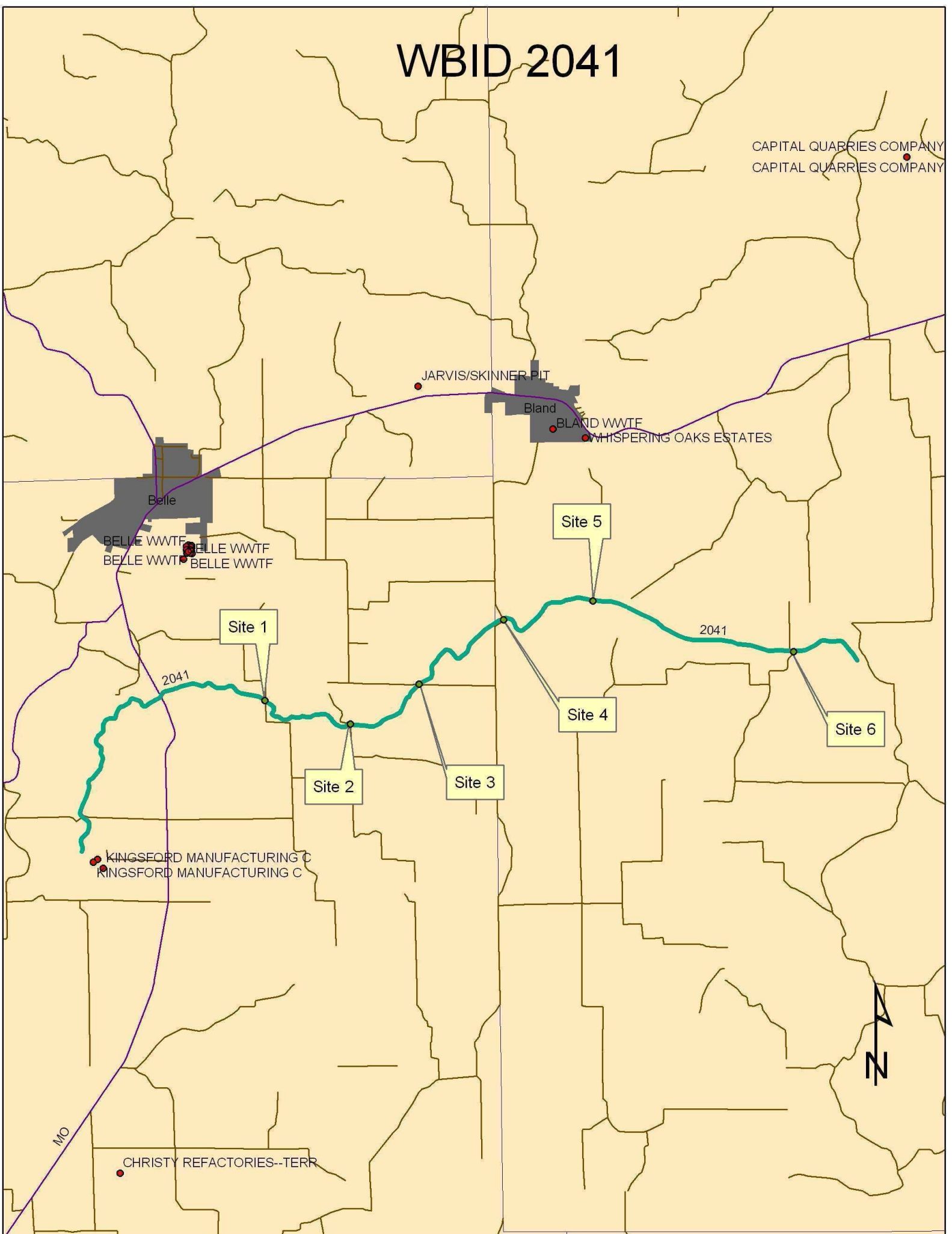
Discharger Facility Name(s):	Belle WWTF
Discharger Permit Number(s):	MO 0048101

**UAA Surveyor**

Name of Surveyor:	Aaron Ball	Telephone Number:	913.307.0054
Organization/Employer: SES, Inc.			
Position: Field Team Leader			

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

# WBID 2041



**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    2041  
 Site #                    1

Date and Time:            8.01.07      9:30am

Current Weather Conditions      clear

Weather Conditions for Past 10 days:      clear

Drought Conditions? No

Site Location (e.g. road crossing)      County Rd. 411

GPS Mark:                    8

Upstream Photo                    3                    Downstream Photo                    4

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<u><b>None of the Above</b></u>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<u><b>None of the Above</b></u>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	

**WBID #** 2041      **Site #** 1  
**Mark #** 8      **Dissolved Oxygen (ppm)** 8.4  
**Upstream Views Physical Dimensions:** Is there any water present at this view? yes  
 If so, is there an obvious current? no

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	10				
Run	0				
Pool	90				

**Downstream View's Physical Dimensions:** Is there any water present at this view? yes  
 If so, is there an obvious current? no


Substrate:

28% Cobble	45% Gravel	% Sand	% Silt
% Mud/Clay	27% Bedrock		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

30% floating and flowering water plant. 30% floating algae

### Water Characteristics

Odor	Sewage	Musky	Chemical	<u><b>None</b></u>	Other
Color	<u><b>Clear</b></u>	<u><b>Green</b></u>	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	<u><b>None</b></u>	Other
Surface Deposit	<u><b>Oil</b></u>	Scum	Foam	None	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 1

Mark # 8

WBID# 2041

	Depth (m)
<b>Transect 1</b>	0.60
Substrate:	0.60
bedrock	0.70
Water Clarity:	0.80
none	0.80
Channel Feature:	0.70
pool	0.90
Channel Width:	0.75
7 yards	0.80
<b>0.73</b>	0.35
<b>Transect 2</b>	0.30
Substrate:	0.70
bedrock	0.80
Water Clarity:	0.85
none	0.90
Channel Feature:	0.80
pool	0.55
Channel Width:	0.50
14 yards	0.45
<b>0.63</b>	0.35
<b>Transect 3</b>	0.20
Substrate:	0.40
bedrock	0.50
Water Clarity:	0.55
none	0.50
Channel Feature:	0.55
pool	0.50
Channel Width:	0.60
18 yards	0.45
<b>0.50</b>	0.30
<b>Transect 4</b>	0.15
Substrate:	0.30
cobbly gravel	0.35
Water Clarity:	0.35
clear	0.40
Channel Feature:	0.45
pool	0.50
Channel Width:	0.50
13 yards	0.45
<b>0.38</b>	0.25

	Depth (m)
<b>Transect 5</b>	0.05
Substrate:	0.10
cobbly gravel	0.00
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.15
pool	0.30
Channel Width:	0.40
14 yards	0.45
<b>0.13</b>	0.30
<b>Transect 6</b>	0.10
Substrate:	0.25
cobbly gravel	0.45
Water Clarity:	0.50
clear	0.50
Channel Feature:	0.40
pool	0.40
Channel Width:	0.35
7 yards	0.30
<b>0.38</b>	0.15
<b>Transect 7</b>	0.20
Substrate:	0.30
cobbly gravel	0.35
Water Clarity:	0.50
clear	0.40
Channel Feature:	0.45
pool	0.40
Channel Width:	0.20
10 yards	0.10
<b>0.33</b>	0.10
<b>Transect 8</b>	0.05
Substrate:	0.05
gravel	0.00
Water Clarity:	0.00
none	0.00
Channel Feature:	0.20
pool	0.40
Channel Width:	0.55
19 yards	0.55
<b>0.13</b>	0.30

	Depth (m)
<b>Transect 9</b>	0.25
Substrate:	0.55
gravel	0.80
Water Clarity:	0.65
clear	0.70
Channel Feature:	0.60
pool	0.60
Channel Width:	0.55
10 yards	0.40
<b>0.58</b>	0.15
<b>Transect 10</b>	0.10
Substrate:	0.30
gravel	0.35
Water Clarity:	0.40
clear	0.45
Channel Feature:	0.40
pool	0.30
Channel Width:	0.25
8 yards	0.20
<b>0.30</b>	0.10
<b>Transect 11</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
N/A	0.00
Channel Feature:	0.00
N/A	0.00
Channel Width:	0.00
6 yards	0.00
<b>0.00</b>	0.00

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    2041  
 Site #                    2

Date and Time:            8.01.07      8:40am

Current Weather Conditions      clear

Weather Conditions for Past 10 days:      clear

Drought Conditions? No

Site Location (e.g. road crossing)      Hwy EE

GPS Mark:                    7

Upstream Photo                    1                    Downstream Photo                    2

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<u><b>None of the Above</b></u>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<u><b>None of the Above</b></u>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	

**WBID #** 2041      **Site #** 2  
**Mark #** 7      **Dissolved Oxygen (ppm)** 3.6  
**Upstream Views Physical Dimensions:** Is there any water present at this view? yes  
 If so, is there an obvious current? no

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	50				
Run	0				
Pool	50				

**Downstream View's Physical Dimensions:** Is there any water present at this view? yes  
 If so, is there an obvious current? no


Substrate:

100% Cobble	% Gravel	% Sand	% Silt
% Mud/Clay	% Bedrock		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

algae on substrate, blooming in water and floating on water surface. Water in channel is almost non-existent and mostly grown over with willow.

### Water Characteristics

Odor	Sewage	Musky	Chemical	<u><b>None</b></u>	Other
Color	<u><b>Clear</b></u>	<u><b>Green</b></u>	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	<u><b>None</b></u>	Other
Surface Deposit	Oil	Scum	Foam	<u><b>None</b></u>	Other



**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 2

Mark # 7

WBID# 2041

	Depth (m)
<b>Transect 1</b>	0.10
Substrate:	0.25
cobble	0.35
Water Clarity:	0.35
some	0.35
Channel Feature:	0.40
pool	0.30
Channel Width:	0.45
10 yards	0.30
<b>0.33</b>	0.20
<b>Transect 2</b>	0.15
Substrate:	0.35
cobble	0.45
Water Clarity:	0.40
clear	0.50
Channel Feature:	0.40
pool	0.40
Channel Width:	0.10
15 yards	0.00
<b>0.38</b>	0.05
<b>Transect 3</b>	0.05
Substrate:	0.10
cobble	0.10
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.00
15 yards	0.00
<b>0.00</b>	0.00
<b>Transect 4</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
N/A	0.00
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.00
10 yards	0.00
<b>0.00</b>	0.00

	Depth (m)
<b>Transect 5</b>	0.05
Substrate:	0.05
cobble	0.05
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.05
riffle	0.05
Channel Width:	0.05
7 yards	0.00
<b>0.05</b>	0.00
<b>Transect 6</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
N/A	0.00
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.00
5 yards	0.00
<b>0.00</b>	0.00
<b>Transect 7</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
N/A	0.00
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.00
6 yards	0.00
<b>0.00</b>	0.00
<b>Transect 8</b>	0.05
Substrate:	0.05
cobble	0.10
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.10
pool	0.10
Channel Width:	0.10
3 yards	0.05
<b>0.10</b>	0.05

	Depth (m)
<b>Transect 9</b>	0.05
Substrate:	0.00
cobble	0.05
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.10
pool	0.10
Channel Width:	0.05
3 yards	0.05
<b>0.05</b>	0.00
<b>Transect 10</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
N/A	0.00
Channel Feature:	0.00
N/A	0.00
Channel Width:	0.00
3 yards	0.00
<b>0.00</b>	0.00
<b>Transect 11</b>	0.05
Substrate:	0.10
cobble	0.15
Water Clarity:	0.20
clear	0.25
Channel Feature:	0.25
pool	0.25
Channel Width:	0.20
4 yards	0.15
<b>0.18</b>	0.10

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    2041  
 Site #                    3

Date and Time:            8.01.07      10:15am

Current Weather Conditions      clear

Weather Conditions for Past 10 days:      clear

Drought Conditions? No

Site Location (e.g. road crossing)      County Rd. 409

GPS Mark:                    9

Upstream Photo                    6                    Downstream Photo                    5

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<u><b>None of the Above</b></u>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<u><b>None of the Above</b></u>	Other	

**Indications of Human Use**

<u><b>Roads</b></u>	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	<u><b>Fire pit/ring</b></u>
NPDES Discharge	Fishing Tackle	Other:	

**WBID #** 2041      **Site #** 3  
**Mark #** 9      **Dissolved Oxygen (ppm)** 4.7  
**Upstream Views Physical Dimensions:** Is there any water present at this view? yes

If so, is there an obvious current? no

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	0				
Run	0				
Pool	100				

**Downstream View's Physical Dimensions:** Is there any water present at this view? yes

If so, is there an obvious current? no


Substrate:

41% Cobble	50% Gravel	% Sand	% Silt
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% Mud/Clay	9% Bedrock
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**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

100% algae on subsurface. 25% coverage of flowering, floating water plant.

**Water Characteristics**

Odor	Sewage	Musky	Chemical	<u><b>None</b></u>	Other
Color	<u><b>Clear</b></u>	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	<u><b>None</b></u>	Other
Surface Deposit	Oil	Scum	Foam	<u><b>None</b></u>	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 3

Mark # 9

WBID# 2041

	Depth (m)
<b>Transect 1</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
pool	0.00
Channel Width:	0.05
13 yards	0.05
<b>0.00</b>	0.10
<b>Transect 2</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.05
pool	0.10
Channel Width:	0.05
12 yards	0.15
<b>0.03</b>	0.15
<b>Transect 3</b>	0.00
Substrate:	0.00
bedrock	0.00
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.05
pool	0.05
Channel Width:	0.00
15 yards	0.05
<b>0.05</b>	0.05
<b>Transect 4</b>	0.05
Substrate:	0.05
cobbly gravel	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
pool	0.00
Channel Width:	0.00
19 yards	0.05
<b>0.00</b>	0.05

	Depth (m)
<b>Transect 5</b>	0.15
Substrate:	0.15
cobble	0.15
Water Clarity:	0.15
clear	0.05
Channel Feature:	0.00
pool	0.00
Channel Width:	0.00
17 yards	0.00
<b>0.03</b>	0.00
<b>Transect 6</b>	0.00
Substrate:	0.10
cobble	0.15
Water Clarity:	0.10
clear	0.00
Channel Feature:	0.20
pool	0.30
Channel Width:	0.30
18 yards	0.20
<b>0.15</b>	0.15
<b>Transect 7</b>	0.05
Substrate:	0.10
gravel	0.05
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.05
pool	0.05
Channel Width:	0.00
13 yards	0.00
<b>0.05</b>	0.00
<b>Transect 8</b>	0.00
Substrate:	0.00
gravel	0.10
Water Clarity:	0.20
clear	0.30
Channel Feature:	0.40
pool	0.30
Channel Width:	0.20
13 yards	0.15
<b>0.18</b>	0.05

	Depth (m)
<b>Transect 9</b>	0.00
Substrate:	0.00
gravel	0.15
Water Clarity:	0.20
clear	0.25
Channel Feature:	0.25
pool	0.30
Channel Width:	0.40
17 yards	0.25
<b>0.23</b>	0.20
<b>Transect 10</b>	0.05
Substrate:	0.05
gravel	0.10
Water Clarity:	0.10
clear	0.30
Channel Feature:	0.30
pool	0.30
Channel Width:	0.30
12 yards	0.20
<b>0.15</b>	0.10
<b>Transect 11</b>	0.05
Substrate:	0.10
gravel	0.15
Water Clarity:	0.20
clear	0.15
Channel Feature:	0.20
pool	0.15
Channel Width:	0.15
7 yards	0.10
<b>0.15</b>	0.10

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    2041  
 Site #                    4

Date and Time:            8.01.07

Current Weather Conditions        clear

Weather Conditions for Past 10 days:        clear

Drought Conditions? No

Site Location (e.g. road crossing)            Hwy T

GPS Mark:                    10

Upstream Photo                    7                    Downstream Photo                    8

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<u><b>None of the Above</b></u>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<u><b>None of the Above</b></u>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	

WBID # 2041 Site # 4  
Mark # 10 Dissolved Oxygen (ppm) 5.5  
Upstream Views Physical Dimensions: Is there any water present at this view? yes

If so, is there an obvious current? no

Select one of the following channel features:

	% of Channel Feature				
Riffle	0				
Run	0				
Pool	100				

Downstream View's Physical Dimensions: Is there any water present at this view? no

If so, is there an obvious current?


Substrate:

14% Cobble	86% Gravel	% Sand	% Silt
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% Mud/Clay	% Bedrock
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Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)

none
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#### Water Characteristics

Odor	Sewage	Musky	Chemical	<u>None</u>	Other
Color	Clear	Green	Gray	<u>Milky</u>	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	<u>None</u>	Other
Surface Deposit	Oil	Scum	Foam	<u>None</u>	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 4

Mark # 10

WBID# 2041

	Depth (m)		Depth (m)		Depth (m)
<b>Transect 1</b>	0.00	<b>Transect 5</b>	0.00	<b>Transect 9</b>	0.10
Substrate:	0.00	Substrate:	0.00	Substrate:	0.30
gravel	0.00	gravel	0.05	cobbly gravel	0.50
Water Clarity:	0.00	Water Clarity:	0.10	Water Clarity:	0.50
N/A	0.00	none	0.10	none	0.60
Channel Feature:	0.00	Channel Feature:	0.10	Channel Feature:	0.60
N/A	0.00	pool	0.20	pool	0.55
Channel Width:	0.00	Channel Width:	0.30	Channel Width:	0.50
19 yards	0.00	13 yards	0.25	15 yards	0.40
<b>0.00</b>	0.00	<b>0.10</b>	0.10	<b>0.50</b>	0.20
<b>Transect 2</b>	0.00	<b>Transect 6</b>	0.00	<b>Transect 10</b>	0.20
Substrate:	0.00	Substrate:	0.00	Substrate:	0.50
gravel	0.00	gravel	0.00	cobbly gravel	0.70
Water Clarity:	0.00	Water Clarity:	0.10	Water Clarity:	0.70
N/A	0.00	none	0.10	none	0.70
Channel Feature:	0.00	Channel Feature:	0.15	Channel Feature:	0.65
N/A	0.00	pool	0.15	pool	0.50
Channel Width:	0.00	Channel Width:	0.10	Channel Width:	0.45
16 yards	0.00	13 yards	0.10	13 yards	0.35
<b>0.00</b>	0.00	<b>0.10</b>	0.05	<b>0.50</b>	0.15
<b>Transect 3</b>	0.00	<b>Transect 7</b>	0.00	<b>Transect 11</b>	0.10
Substrate:	0.00	Substrate:	0.00	Substrate:	0.30
gravel	0.00	gravel	0.00	cobbly gravel	0.40
Water Clarity:	0.00	Water Clarity:	0.05	Water Clarity:	0.40
N/A	0.00	none	0.00	none	0.30
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.25
N/A	0.00	pool	0.05	pool	0.20
Channel Width:	0.00	Channel Width:	0.10	Channel Width:	0.30
18 yards	0.00	14 yards	0.05	10 yards	0.30
<b>0.00</b>	0.00	<b>0.03</b>	0.10	<b>0.30</b>	0.20
<b>Transect 4</b>	0.00	<b>Transect 8</b>	0.00		
Substrate:	0.00	Substrate:	0.00		
gravel	0.00	gravel	0.25		
Water Clarity:	0.00	Water Clarity:	0.25		
none	0.00	none	0.40		
Channel Feature:	0.00	Channel Feature:	0.40		
pool	0.10	pool	0.45		
Channel Width:	0.10	Channel Width:	0.45		
16 yards	0.00	15 yards	0.50		
<b>0.00</b>	0.00	<b>0.40</b>	0.40		

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID 2041  
 Site # 5

Date and Time: 8.01.07 12:05

Current Weather Conditions clear

Weather Conditions for Past 10 days: clear

Drought Conditions? No

Site Location (e.g. road crossing) Hwy B

GPS Mark: 11

Upstream Photo 10 Downstream Photo 11

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<u><b>None of the Above</b></u>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	<u><b>Fence</b></u> <u><b>Picture #12</b></u>
Steep slopes	None of the Above	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
<u><b>Livestock Watering</b></u>	RV/ATV Tracks	Camping Sites	Fire pit/ring
<u><b>Picture #9</b></u>			
NPDES Discharge	Fishing Tackle	Other:	



**WBID #** 2041      **Site #** 5  
**Mark #** 11      **Dissolved Oxygen (ppm)** 8.4  
**Upstream Views Physical Dimensions:** Is there any water present at this view? yes  
 If so, is there an obvious current? no

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	43				
Run	0				
Pool	57				

**Downstream View's Physical Dimensions:** Is there any water present at this view? yes  
 If so, is there an obvious current? no


Substrate:

68% Cobble	23% Gravel	% Sand	% Silt
% Mud/Clay	9% Bedrock		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

algae on 100% of substrate.

### Water Characteristics

Odor	Sewage	Musky	Chemical	<u><b>None</b></u>	Other
Color	<u><b>Clear</b></u>	<u><b>Green</b></u>	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	<u><b>None</b></u>	Other
Surface Deposit	Oil	Scum	Foam	<u><b>None</b></u>	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 5

Mark # 11

WBID# 2041

	Depth (m)		Depth (m)		Depth (m)
<b>Transect 1</b>	0.05	<b>Transect 5</b>	0.00	<b>Transect 9</b>	0.00
Substrate:	0.10	Substrate:	0.00	Substrate:	0.00
cobble	0.10	cobbly gravel	0.00	cobble	0.00
Water Clarity:	0.10	Water Clarity:	0.00	Water Clarity:	0.00
clear	0.10	N/A	0.00	clear	0.00
Channel Feature:	0.10	Channel Feature:	0.00	Channel Feature:	0.00
pool	0.00	N/A	0.00	riffle	0.00
Channel Width:	0.10	Channel Width:	0.00	Channel Width:	0.05
7 yards	0.05	4 yards	0.00	4 yards	0.05
<b>0.10</b>	<b>0.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>
<b>Transect 2</b>	0.00	<b>Transect 6</b>	0.05	<b>Transect 10</b>	0.05
Substrate:	0.05	Substrate:	0.10	Substrate:	0.10
cobbly gravel	0.10	cobbly gravel	0.10	cobble	0.10
Water Clarity:	0.15	Water Clarity:	0.10	Water Clarity:	0.10
clear	0.15	clear	0.15	clear	0.10
Channel Feature:	0.15	Channel Feature:	0.15	Channel Feature:	0.05
pool	0.15	riffle	0.20	p	0.05
Channel Width:	0.15	Channel Width:	0.10	Channel Width:	0.05
8 yards	0.10	3 yards	0.00	3 yards	0.10
<b>0.13</b>	<b>0.10</b>	<b>0.10</b>	<b>0.00</b>	<b>0.10</b>	<b>0.10</b>
<b>Transect 3</b>	0.00	<b>Transect 7</b>	0.00	<b>Transect 11</b>	0.15
Substrate:	0.00	Substrate:	0.05	Substrate:	0.25
cobbly gravel	0.00	cobble	0.05	bedrock	0.15
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.10
N/A	0.00	clear	0.00	clear	0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.20
N/A	0.00	riffle	0.00	p	0.35
Channel Width:	0.00	Channel Width:	0.05	Channel Width:	0.40
3 yards	0.00	4 yards	0.00	18 yards	0.50
<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>	<b>0.23</b>	<b>0.50</b>
<b>Transect 4</b>	0.00	<b>Transect 8</b>	0.00		
Substrate:	0.00	Substrate:	0.00		
cobbly gravel	0.00	cobble	0.00		
Water Clarity:	0.00	Water Clarity:	0.00		
N/A	0.00	clear	0.00		
Channel Feature:	0.00	Channel Feature:	0.00		
N/A	0.00	riffle	0.00		
Channel Width:	0.00	Channel Width:	0.00		
4 yards	0.00	5 yards	0.00		
<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    2041  
 Site #                    6

Date and Time:            8.01.07      12:50pm

Current Weather Conditions      clear

Weather Conditions for Past 10 days:      clear

Drought Conditions? No

Site Location (e.g. road crossing)      Republican 631

GPS Mark:                    12

Upstream Photo                    14                    Downstream Photo                    13

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<u><b>None of the Above</b></u>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<u><b>None of the Above</b></u>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	

<b>WBID #</b>	2041	<b>Site #</b>	6
<b>Mark #</b>	12	<b>Dissolved Oxygen (ppm)</b>	5.8
<b>Upstream Views Physical Dimensions:</b>	Is there any water present at this view?      yes		

If so, is there an obvious current? no

**Select one of the following channel features:**

% of Channel Feature

	% of Channel Volume				
Riffle	20				
Run					
Pool	80				

**Downstream View's Physical Dimensions:** Is there any water present at this view?      yes

If so, is there an obvious current? no


Substrate:

73% Cobble	27% Gravel	% Sand	% Silt
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% Mud/Clay	% Bedrock
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**Aquatic Vegetation:** (Note amount of vegetation or algal growth at the assessment site)

none

## Water Characteristics

Odor	Sewage	Musky	Chemical	<b><u>None</u></b>	Other
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Color	<u><b>Clear</b></u>	Green	Gray	Milky	Other
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Bottom Deposit	Sludge	Solids	Fine Sed.	<b><u>None</u></b>	Other
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Surface Deposit	Oil	Scum	Foam	<b>None</b>	Other
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**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 6

Mark # 12

WBID# 2041

	Depth (m)		Depth (m)		Depth (m)
<b>Transect 1</b>	0.00	<b>Transect 5</b>	0.00	<b>Transect 9</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
cobble	0.00	cobble	0.00	cobbly gravel	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
clear	0.05	clear	0.00	N/A	0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
riffle	0.05	riffle	0.05	N/A	0.00
Channel Width:	0.00	Channel Width:	0.05	Channel Width:	0.05
2 yards	0.05	6 yards	0.05	2 yards	0.05
<b>0.00</b>	0.00	<b>0.00</b>	0.00	<b>0.00</b>	0.05
<b>Transect 2</b>	0.10	<b>Transect 6</b>	0.00	<b>Transect 10</b>	0.05
Substrate:	0.10	Substrate:	0.05	Substrate:	0.10
cobble	0.10	cobble	0.05	cobbly gravel	0.10
Water Clarity:	0.05	Water Clarity:	0.05	Water Clarity:	0.10
clear	0.10	clear	0.10	clear	0.10
Channel Feature:	0.10	Channel Feature:	0.10	Channel Feature:	0.05
pool	0.10	pool	0.10	pool	0.05
Channel Width:	0.10	Channel Width:	0.10	Channel Width:	0.05
4 yards	0.10	5 yards	0.05	5 yards	0.10
<b>0.10</b>	0.00	<b>0.05</b>	0.05	<b>0.10</b>	0.10
<b>Transect 3</b>	0.05	<b>Transect 7</b>	0.00	<b>Transect 11</b>	0.15
Substrate:	0.10	Substrate:	0.00	Substrate:	0.25
cobble	0.05	cobbly gravel	0.05	cobbly gravel	0.15
Water Clarity:	0.05	Water Clarity:	0.10	Water Clarity:	0.10
clear	0.10	clear	0.20	clear	0.00
Channel Feature:	0.10	Channel Feature:	0.20	Channel Feature:	0.20
pool	0.10	pool	0.20	pool	0.35
Channel Width:	0.10	Channel Width:	0.20	Channel Width:	0.40
7 yards	0.10	5 yards	0.10	10 yards	0.50
<b>0.10</b>	0.05		0.00	<b>0.23</b>	0.50
<b>Transect 4</b>	0.05	<b>Transect 8</b>	0.05		
Substrate:	0.00	Substrate:	0.10		
cobbly gravel	0.00	cobbly gravel	0.15		
Water Clarity:	0.00	Water Clarity:	0.20		
clear	0.05	clear	0.20		
Channel Feature:	0.05	Channel Feature:	0.20		
pool	0.00	pool	0.25		
Channel Width:	0.05	Channel Width:	0.20		
9 yards	0.05	7 yards	0.20		
<b>0.05</b>	0.05	<b>0.20</b>	0.10		

**WBID# 2041**



**Site# 1 Photo ID# 3, Upstream**



**Site# 1 Photo ID# 4, Downstream**



**Site# 2 Photo ID# 1, Upstream**



**Site# 2 Photo ID# 2, Downstream**



**WBID# 2041**



**Site# 3 Photo ID# 6, Upstream**



**Site# 3 Photo ID# 5, Downstream**



**Site# 4 Photo ID# 7, Upstream**



**Site# 4 Photo ID# 8, Downstream**



**WBID# 2041**



**Site# 5 Photo ID# 10, Upstream**



**Site# 5 Photo ID# 11, Downstream**



**Site# 5 Photo ID# 12, Fence**



**Site# 5 Photo ID# 9, Livestock watering**



**WBID# 2041**



**Site# 6 Photo ID# 14, Upstream**



**Site# 6 Photo ID# 13, Downstream**